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| APPLICATION NO. | F | ILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------|--------------|------------|-------------------------|---------------------------------------|------------------|--|
| 10/532,456 | 04/22/2005 | | Liberty L Gunter | 20030213-US | 3920 | |
| 42716 | 7590 | 06/22/2006 | | EXAM | EXAMINER | |
| MAINE & | ASMUS | | JEFFERSON, C | JEFFERSON, QUOVAUNDA | | |
| P. O. BOX | - | :1 | ART UNIT | PAPER NUMBER | | |
| NASHUA, | NH U3UU |) <u>1</u> | 2823 | · · · · · · · · · · · · · · · · · · · | | |
| | | | DATE MAILED: 06/22/2006 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | EK | | | |
|--|--|--|---|--------------|--|--|--|
| | | Application No. | Applicant(s) | | | | |
| | | 10/532,456 | GUNTER ET AL. | | | | |
| | Office Action Summary | Examiner | Art Unit | | | | |
| | | Quovaunda Jefferson | 2823 | | | | |
| Period for | The MAILING DATE of this communicate | ation appears on the cover she | et with the correspondence a | ddress | | | |
| A SHO WHIC - Extensafter S - If NO - Failure Any re | DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAI sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commun period for reply is specified above, the maximum statute to reply within the set or extended period for reply will ply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b). | LING DATE OF THIS COMM 37 CFR 1.136(a). In no event, however, mication. ory period will apply and will expire SIX (6), by statute, cause the application to become | UNICATION. nay a reply be timely filed) MONTHS from the mailing date of this me ABANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1)⊠ | Responsive to communication(s) filed | on <i>22 April 2005</i> . | | | | | |
| • | |)⊠ This action is non-final. | | | | | |
| • — | Since this application is in condition fo | r allowance except for formal | matters, prosecution as to th | ne merits is | | | |
| 1 | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Dispositio | on of Claims | | | | | | |
| 5) | Claim(s) 1-21 is/are pending in the application of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-21 are subject to restriction | withdrawn from consideration | l. | | | | |
| Application | on Papers | | | | | | |
| 9) 🔲 🗆 | The specification is objected to by the l | Examiner. | | | | | |
| 10)[] 7 | The drawing(s) filed on is/are: a | a)☐ accepted or b)☐ objecte | d to by the Examiner. | | | | |
| | Applicant may not request that any objection | on to the drawing(s) be held in ab | peyance. See 37 CFR 1.85(a). | | | | |
| | Replacement drawing sheet(s) including the The oath or declaration is objected to be | | | | | | |
| Priority u | nder 35 U.S.C. § 119 | | | | | | |
| a)[| Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International ce the attached detailed Office action | ocuments have been received ocuments have been received the priority documents have be all Bureau (PCT Rule 17.2(a)). | l. I in Application No been received in this Nationa | al Stage | | | |
| Attachment | (s) e of References Cited (PTO-892) | 4) 🗍 Inten | view Summary (PTO-413) | | | | |
| 2) Notice 3) Inform | e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT No(s)/Mail Date | D-948) Pape FO/SB/08) 5) ☐ Notice | er No(s)/Mail Date the of Informal Patent Application (PTr: | ГО-152) | | | |

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DETAILED ACTION

Election/Restrictions

- I. Claims 1-14 and 21, drawn to method for fabrication of an etched groove GaN-based permeable-base transistor device, classified in class 438, subclass 93.
- II. Claims 15-19, drawn to an etched grooved GaN-based permeable-based transistor device classified in class 257, subclass 197.

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, instead of fabrication method by using a lift-off technique, the product as claimed could be fabricated by first depositing each layer in the transistor and then etching through each of the layers.

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Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

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unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quovaunda Jefferson whose telephone number is 571-272-5051. The examiner can normally be reached on Monday through Friday, 8AM to 4:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fernando Toledo Patent Examiner Art Unit 2823

